

**What is Claimed is:**

1. A device for driving step of an escalator or pallets of a moving walkway, wherein a chain wheel, having a chain wheel drive shaft, is coupled to the steps or pallets, the device, comprising:

a driving gear for being coupled to the chain wheel drive shaft; and

at least one driving motor coupled to the driving gear;

wherein the driving gear includes first and second gears coupled to the chain wheel drive shaft, and wherein the first and second gears each have variable reference diameters.

2. The device of claim 1, wherein the driving gear is a distributor gear.

3. The device of claim 1, wherein the variable reference diameters of the first and second gears fluctuate in a circumferential direction between a minimum value and a maximum value.

4. The device of claim 3, wherein the chain wheel has a number of teeth and the fluctuation of the variable reference diameters of the first and second gears corresponds to the number of teeth on the chain wheel.

5. The device of claim 1, further comprising a handrail and a handrail drive shaft, wherein the steps or pallets are driven irregularly and the handrail is driven uniformly.

6. A device for driving step of an escalator or the pallets of a moving walkway, wherein a chain wheel, having a chain wheel drive shaft, is coupled to the steps or pallets, and the escalator or moving walkway includes a handrail with a handrail drive shaft coupled to the handrail, the device, comprising:

a driving gear for being coupled to the chain wheel drive shaft and the handrail drive shaft; and

at least one driving motor coupled to the driving gear;

wherein the driving gear includes first and second gears coupled to the chain wheel drive shaft, and wherein the first and second gears each have variable reference diameters.

7. The device of claim 6, wherein the driving gear is a distributor gear.

8. The device of claim 6, wherein the variable reference diameters of the first and second gears fluctuate in a circumferential direction between a minimum value and a maximum value.

9. The device of claim 8, wherein the chain wheel has a number of teeth and the fluctuation of the variable reference diameters of the first and second gears corresponds to the number of teeth on the chain wheel.

10. The device of claim 6, wherein the steps or pallets are driven irregularly and the handrail is driven uniformly.